



RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10/619,359
Source: O/P/E
Date Processed by STIC: 7/28/2003

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1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/619,359

DATE: 07/28/2003
 TIME: 08:59:07

Input Set : A:\G00307-70020.txt
 Output Set: N:\CRF4\07282003\J619359.raw

4 <110> APPLICANT: STOCKER, PENNY J.
 5 STEIMEL-CRESPI, DOROTHY T.
 6 CRESPI, CHARLES L.
 9 <120> TITLE OF INVENTION: P-GLYCOPROTEINS AND USES THEREOF
 12 <130> FILE REFERENCE: G00307.70020.US
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/619,359
C--> 14 <141> CURRENT FILING DATE: 2003-07-14
 14 <150> PRIOR APPLICATION NUMBER: US 60/156,921
 15 <151> PRIOR FILING DATE: 1999-09-28
 17 <150> PRIOR APPLICATION NUMBER: US 60/158,818
 18 <151> PRIOR FILING DATE: 1999-10-12
 20 <150> PRIOR APPLICATION NUMBER: US 09/672,810
 21 <151> PRIOR FILING DATE: 2000-09-28
 23 <160> NUMBER OF SEQ ID NOS: 18
 25 <170> SOFTWARE: FastSEQ for Windows Version 3.0

*Does Not Comply
Corrected Diskette Needed*

ERRORED SEQUENCES

27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 4186
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Macaca fascicularis
 32 <220> FEATURE:
 33 <221> NAME/KEY: CDS
 34 <222> LOCATION: (100)...(3940)
 36 <400> SEQUENCE: 1
 37 ggccgctgtt cgttccgct aggtctttcc actaaaagtgc gagtatcttc ttccaaaatt 60
 38 tcacgacttg gtggccgttc caaggagcgc gaggtcggg atg gat ctt gaa ggg 114
 39 Met Asp Leu Glu Gly
 40 1 5
 42 gac cgc aat gga gga gca gag aag aac ttt ttt aaa ctg aac aat 162
 43 Asp Arg Asn Gly Gly Ala Glu Lys Lys Asn Phe Phe Lys Leu Asn Asn
 44 10 15 20
 46 aaa agt aaa aaa gat aag aag gaa agg aaa cca act gtc agt gta ttt 210
 47 Lys Ser Lys Lys Asp Lys Lys Glu Arg Lys Pro Thr Val Ser Val Phe
 48 25 30 35
 50 tca atg ttt cgc tat tca aat tgg ctt gac aag ttg tat atg gtg gtg 258
 51 Ser Met Phe Arg Tyr Ser Asn Trp Leu Asp Lys Leu Tyr Met Val Val
 52 40 45 50
 54 gga act ttg gct gcc atc atc cat gga gct gga ctt cct ctc atg atg 306
 55 Gly Thr Leu Ala Ala Ile Ile His Gly Ala Gly Leu Pro Leu Met Met
 56 55 60 65

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58	ctg	gtg	ttt	gga	gac	atg	acg	gat	acc	ttt	gca	aat	gca	gga	aat	tta	354
59	Leu	Val	Phe	Gly	Asp	Met	Thr	Asp	Thr	Phe	Ala	Asn	Ala	Gly	Asn	Leu	
60	70					75				80					85		
62	gga	gat	tta	gga	gct	ctg	ttg	act	aat	agc	agt	aat	atc	act	aat	aca	402
63	Gly	Asp	Leu	Gly	Ala	Leu	Leu	Thr	Asn	Ser	Ser	Asn	Ile	Thr	Asp	Thr	
64						90				95					100		
66	gtg	ccc	gtc	atg	aat	ctg	gag	gaa	gat	atg	acc	agg	tat	gcc	tat	tat	450
67	Val	Pro	Val	Met	Asn	Leu	Glu	Glu	Asp	Met	Thr	Arg	Tyr	Ala	Tyr	Tyr	
68						105				110					115		
70	tac	agt	gga	att	ggt	gct	ggg	gtg	ctg	gtt	gct	gtc	att	cag	gtt		498
71	Tyr	Ser	Gly	Ile	Gly	Ala	Gly	Val	Leu	Val	Ala	Ala	Tyr	Ile	Gln	Val	
72						120				125					130		
74	tca	ttt	tgg	tgc	ctg	gca	gct	gga	aga	caa	ata	cac	aaa	att	aga	aaa	546
75	Ser	Phe	Trp	Cys	Leu	Ala	Ala	Gly	Arg	Gln	Ile	His	Lys	Ile	Arg	Lys	
76						135				140					145		
78	cag	ttt	ttt	cat	gct	ata	atg	cga	cag	gag	ata	ggc	tgg	ttt	gat	gtg	594
79	Gln	Phe	Phe	His	Ala	Ile	Met	Arg	Gln	Glu	Ile	Gly	Trp	Phe	Asp	Val	
80						150				155					160		165
82	cac	gat	gtt	ggg	gag	ctt	aac	acc	cgg	ctt	aca	gat	gat	gtc	tcc	aag	642
83	His	Asp	Val	Gly	Glu	Leu	Asn	Thr	Arg	Leu	Thr	Asp	Asp	Val	Ser	Lys	
84						170				175					180		
86	att	aat	gaa	gga	att	ggt	gac	aaa	att	gga	atg	ttc	ttt	cag	tca	atg	690
87	Ile	Asn	Glu	Gly	Ile	Gly	Asp	Lys	Ile	Gly	Met	Phe	Phe	Gln	Ser	Met	
88						185				190					195		
90	gca	aca	ttt	ttc	act	ggg	ttt	ata	gta	gga	ttt	aca	cgt	ggt	tgg	aag	738
91	Ala	Thr	Phe	Phe	Thr	Gly	Ile	Val	Gly	Phe	Thr	Arg	Gly	Trp	Lys		
92						200				205					210		
94	cta	acc	ctt	gtg	att	ttg	gcc	atc	agt	cct	gtt	ttt	gga	ctg	tca	gtc	786
95	Leu	Thr	Leu	Val	Ile	Leu	Ala	Ile	Ser	Pro	Val	Leu	Gly	Leu	Ser	Ala	
96						215				220					225		
98	gca	gtc	tgg	gca	aag	ata	ctg	tct	tca	ttt	act	gat	aaa	gaa	ctc	tta	834
99	Ala	Val	Trp	Ala	Lys	Ile	Leu	Ser	Ser	Phe	Thr	Asp	Lys	Glu	Leu	Leu	
100						230				235					240		245
102	gct	tat	gca	aaa	gct	gga	gca	gta	gct	gaa	gag	gtc	tgg	gca	gca	att	882
103	Ala	Tyr	Ala	Lys	Ala	Gly	Ala	Val	Ala	Glu	Glu	Val	Leu	Ala	Ala	Ile	
104						250				255					260		
106	aga	act	gtg	att	gca	ttt	gga	gga	caa	aag	aaa	gaa	ctc	gaa	agg	tac	930
107	Arg	Thr	Val	Ile	Ala	Phe	Gly	Gly	Gln	Lys	Lys	Glu	Leu	Glu	Arg	Tyr	
108						265				270					275		
110	aac	aaa	aat	tta	gaa	gaa	gct	aaa	aga	att	ggg	ata	aag	aaa	gct	att	978
111	Asn	Lys	Asn	Leu	Glu	Glu	Ala	Lys	Arg	Ile	Gly	Ile	Lys	Lys	Ala	Ile	
112						280				285					290		
114	aca	gcc	aat	att	tct	ata	ggt	gct	gct	ttc	ctg	ctt	atc	tat	gca	tct	1026
115	Thr	Ala	Asn	Ile	Ser	Ile	Gly	Ala	Ala	Phe	Leu	Leu	Ile	Tyr	Ala	Ser	
116						295				300					305		
118	tat	gct	ctg	gcc	ttc	tgg	tat	ggg	acc	acc	ttg	gtc	ctc	tca	aag	gaa	1074
119	Tyr	Ala	Leu	Ala	Phe	Trp	Tyr	Gly	Thr	Leu	Val	Leu	Ser	Lys	Glu		
120						310				315					320		325
122	tat	tct	att	gga	caa	gta	ctc	act	gta	ttc	ttt	tct	gta	tta	att	ggg	1122

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123	Tyr Ser Ile Gly Gln Val Leu Thr Val Phe Phe Ser Val Leu Ile Gly		
124	330	335	340
126	gct ttt agt gtt gga cag gca tct cca agc att gaa gca ttt gca aat		1170
127	Ala Phe Ser Val Gly Gln Ala Ser Pro Ser Ile Glu Ala Phe Ala Asn		
128	345	350	355
130	gca aga gga gca gct ttt gaa atc ttc aag ata att gat aat aag cca		1218
131	Ala Arg Gly Ala Ala Phe Glu Ile Phe Lys Ile Ile Asp Asn Lys Pro		
132	360	365	370
134	agt att gac agc tat tcg aag agt ggg cac aaa cca gat aat att aag		1266
135	Ser Ile Asp Ser Tyr Ser Lys Ser Gly His Lys Pro Asp Asn Ile Lys		
136	375	380	385
138	gga aat ttg gaa ttc aga aat gtt cac ttc agt tac cca tct cga aaa		1314
139	Gly Asn Leu Glu Phe Arg Asn Val His Phe Ser Tyr Pro Ser Arg Lys		
140	390	395	400
142	gaa gtt aag atc ttg aag ggc ctg aac ctg aag gtg cag agt ggg cag		1362
143	Glu Val Lys Ile Leu Lys Gly Leu Asn Leu Lys Val Gln Ser Gly Gln		
144	410	415	420
146	acg gtg gcc ctg gtt gga aac agc ggc tgt ggg aag agc aca acg gtc		1410
147	Thr Val Ala Leu Val Gly Asn Ser Gly Cys Gly Lys Ser Thr Thr Val		
148	425	430	435
150	cag ctg atg cag agg ctt tat gac ccc aca gag ggc atg gtc agt gtt		1458
151	Gln Leu Met Gln Arg Leu Tyr Asp Pro Thr Glu Gly Met Val Ser Val		
152	440	445	450
154	gat gga cag gat att agg acc ata aac gta agg ttt cta cgg gaa atc		1506
155	Asp Gly Gln Asp Ile Arg Thr Ile Asn Val Arg Phe Leu Arg Glu Ile		
156	455	460	465
158	atc ggt gtg gtg agt cag gaa cct gta ttg ttt gcc acc acg ata gct		1554
159	Ile Gly Val Val Ser Gln Glu Pro Val Leu Phe Ala Thr Thr Ile Ala		
160	470	475	480
162	485		
163	gaa aac att cgc tat ggt cgt gaa gat gtc acc atg gat gag att gag		1602
164	Glu Asn Ile Arg Tyr Gly Arg Glu Asp Val Thr Met Asp Glu Ile Glu		
165	490	495	500
166	aaa gct gtc aag gaa gcc aat gcc tat gac ttt atc atg aaa ctg cct		1650
167	Lys Ala Val Lys Glu Ala Asn Ala Tyr Asp Phe Ile Met Lys Leu Pro		
168	505	510	515
170	cag aaa ttt gac acc ctg gtt gga gag aga ggg gcc cag ctg agt ggt		1698
171	Gln Lys Phe Asp Thr Leu Val Gly Glu Arg Gly Ala Gln Leu Ser Gly		
172	520	525	530
174	1746		
175	ggg cag aag cag agg atc gcc att gca cgt gcc ctg gtt cgc aac ccc		
176	Gly Gln Lys Gln Arg Ile Ala Ile Ala Arg Ala Leu Val Arg Asn Pro		
177	535	540	545
178	aag atc ctc ctg gac gag gcc acg tca gcc ttg gac aca gaa agt		1794
179	Lys Ile Leu Leu Asp Glu Ala Thr Ser Ala Leu Asp Thr Glu Ser		
180	550	555	560
181	565		
182	gaa gca gtg gtt cag gtg gct ctg gat aag gcc aga aaa ggt cgg acc		1842
183	Glu Ala Val Val Gln Val Ala Leu Asp Lys Ala Arg Lys Gly Arg Thr		
184	570	575	580
185	580		
186	acc att gtg ata gct cat cgt ttg tct acg gtt cgt aat gcc gac gtc		1890
187	Thr Ile Val Ile Ala His Arg Leu Ser Thr Val Arg Asn Ala Asp Val		

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188	585	590	595	
190	atc gct ggt ttc gat gat gga gtc att gtg gag aaa gga aat cat gat			1938
191	Ile Ala Gly Phe Asp Asp Gly Val Ile Val Glu Lys Gly Asn His Asp			
192	600	605	610	
194	gag ctc atg aaa gag aaa ggc att tac ttc aaa ctt gtc aca atg cag			1986
195	Glu Leu Met Lys Glu Lys Gly Ile Tyr Phe Lys Leu Val Thr Met Gln			
196	615	620	625	
198	aca gca gga aat gaa att gaa tta gaa aat gca gct gat gaa tcc aaa			2034
199	Thr Ala Gly Asn Glu Ile Glu Leu Glu Asn Ala Ala Asp Glu Ser Lys			
200	630	635	640	645
202	agt gaa att gat acc ttg gaa atg tct tca cat gat tca gga tcc agt			2082
203	Ser Glu Ile Asp Thr Leu Glu Met Ser Ser His Asp Ser Gly Ser Ser			
204	650	655	660	
206	cta ata aga aaa aga tcc act cgt agg agt gtc cgt gga tca caa ggc			2130
207	Leu Ile Arg Lys Arg Ser Thr Arg Arg Ser Val Arg Gly Ser Gln Gly			
208	665	670	675	
210	caa gac aga aag ctt agt acc aaa gag gct ctg gat gaa agt ata cct			2178
211	Gln Asp Arg Lys Leu Ser Thr Lys Glu Ala Leu Asp Glu Ser Ile Pro			
212	680	685	690	
214	cca gtt tcc ttt tgg agg att atg aag cta aat tta act gag tgg cct			2226
215	Pro Val Ser Phe Trp Arg Ile Met Lys Leu Asn Leu Thr Glu Trp Pro			
216	695	700	705	
218	tat ttt gtt ggt gta ttt tgt gcc att ata aat gga ggt ctg caa			2274
219	Tyr Phe Val Val Gly Val Phe Cys Ala Ile Ile Asn Gly Gly Leu Gln			
220	710	715	720	725
222	cca gca ttt gca gta ata ttt tca aag att ata ggg att ttt aca aga			2322
223	Pro Ala Phe Ala Val Ile Phe Ser Lys Ile Ile Gly Ile Phe Thr Arg			
224	730	735	740	
226	aat gat gat gcc gaa aca aaa cga cag aat agt aac ttg ttt tca cta			2370
227	Asn Asp Asp Ala Glu Thr Lys Arg Gln Asn Ser Asn Leu Phe Ser Leu			
228	745	750	755	
230	ttg ttt cta gtc ctt gga att gtt tct ttt att aca ttt ttc ctt cag			2418
231	Leu Phe Leu Val Leu Gly Ile Val Ser Phe Ile Thr Phe Phe Leu Gln			
232	760	765	770	
234	ggc ttc aca ttt ggc aaa gct gga gag atc ctc acc aag cgg ctc cga			2466
235	Gly Phe Thr Phe Gly Lys Ala Gly Glu Ile Leu Thr Lys Arg Leu Arg			
236	775	780	785	
238	tac atg gtt ttc cga tcc atg ctc aga cag gat gtg agc tgg ttt gat			2514
239	Tyr Met Val Phe Arg Ser Met Leu Arg Gln Asp Val Ser Trp Phe Asp			
240	790	795	800	805
242	gac cct aaa aac acc act gga gca ttg act acc agg ctc gcc aat gat			2562
243	Asp Pro Lys Asn Thr Thr Gly Ala Leu Thr Thr Arg Leu Ala Asn Asp			
244	810	815	820	
246	gct gct caa gtt aaa ggg gct ata ggt tcc agg ctt gct ata att acc			2610
247	Ala Ala Gln Val Lys Gly Ala Ile Gly Ser Arg Leu Ala Ile Ile Thr			
248	825	830	835	
250	cag aat ata gca aat ctt ggg aca gga ata att ata tcc tta atc tat			2658
251	Gln Asn Ile Ala Asn Leu Gly Thr Gly Ile Ile Ile Ser Leu Ile Tyr			
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254	ggt tgg caa ctg aca ctg tta ctc tta gca att gta ccc atc att gca	2706
255	Gly Trp Gln Leu Thr Leu Leu Leu Ala Ile Val Pro Ile Ile Ala	
256	855 860 865	
258	ata gca gga gtt gtt gaa atg aaa atg ttg tct gga caa gca ctg aaa	2754
259	Ile Ala Gly Val Val Glu Met Lys Met Leu Ser Gly Gln Ala Leu Lys	
260	870 875 880 885	
262	gat aag aaa gaa cta gaa ggt gct ggg aag atc gct act gaa gca ata	2802
263	Asp Lys Lys Glu Leu Glu Gly Ala Gly Lys Ile Ala Thr Glu Ala Ile	
264	890 895 900	
266	gaa aac ttc cga act gtt gtt tct ttg act cag gag cag aag ttt gaa	2850
267	Glu Asn Phe Arg Thr Val Val Ser Leu Thr Gln Glu Gln Lys Phe Glu	
268	905 910 915	
270	cat atg tat gat cag agt ttg cag gta cca tac aga aac tct ttg agg	2898
271	His Met Tyr Asp Gln Ser Leu Gln Val Pro Tyr Arg Asn Ser Leu Arg	
272	920 925 930	
274	aaa gca cac atc ttt gga atc acg ttt tcc ttc acg cag gca atg atg	2946
275	Lys Ala His Ile Phe Gly Ile Thr Phe Ser Phe Thr Gln Ala Met Met	
276	935 940 945	
278	tat ttt tcc tat gct gga tgt ttc cgg ttt gga gcc tac ttg gtg gca	2994
279	Tyr Phe Ser Tyr Ala Gly Cys Phe Arg Phe Gly Ala Tyr Leu Val Ala	
280	950 955 960 965	
282	cat agt ctc atg agc ttt gag gat gtt ctg tta gta ttt tca gct gtt	3042
283	His Ser Leu Met Ser Phe Glu Asp Val Leu Leu Val Phe Ser Ala Val	
284	970 975 980	
286	gtc ttt ggt gcc atg gcc gtg ggg caa gtc agt tca ttt gct cct gac	3090
287	Val Phe Gly Ala Met Ala Val Gly Gln Val Ser Ser Phe Ala Pro Asp	
288	985 990 995	
290	tat gcc aaa gcc aaa gta tca gca gcc cac atc atc atg atc att gaa	3138
291	Tyr Ala Lys Ala Lys Val Ser Ala Ala His Ile Ile Met Ile Ile Glu	
292	1000 1005 1010	
294	aaa acc cct ttg att gac agc tac agc aca gaa ggc cta aag ccg aac	3186
295	Lys Thr Pro Leu Ile Asp Ser Tyr Ser Thr Glu Gly Leu Lys Pro Asn	
296	1015 1020 1025	
298	aca ttg gaa gga aat gtc aca ttt aat gaa gtt gta ttc aac tat ccc	3234
299	Thr Leu Glu Gly Asn Val Thr Phe Asn Glu Val Val Phe Asn Tyr Pro	
300	030 1030 1035 1040 1045	
302	acc cga ctg gac atc cca gtg ctt cag ggg ctg agc ctg gaa gtg aag	3282
303	Thr Arg Leu Asp Ile Pro Val Leu Gln Gly Leu Ser Leu Glu Val Lys	
304	1050 1055 1060	
306	aag ggc cag acg ctg gcc ctg gtg ggc agc agt ggc tgt ggg aag agc	3330
307	Lys Gly Gln Thr Leu Ala Leu Val Gly Ser Ser Gly Cys Gly Lys Ser	
308	1065 1070 1075	
310	acg gtg gtc cag ctc ctg gag cgg ttc tat gac ccc ttg gcg ggg aaa	3378
311	Thr Val Val Gln Leu Leu Glu Arg Phe Tyr Asp Pro Leu Ala Gly Lys	
312	1080 1085 1090	
314	gtg ctg ctt gac ggc aaa gaa ata aag caa ctg aat gtt cag tgg ctc	3426
315	Val Leu Leu Asp Gly Lys Glu Ile Lys Gln Leu Asn Val Gln Trp Leu	
316	1095 1100 1105	
318	cga gca cac ctg ggc atc gtg tcc cag gag ccc atc ctg ttt gac tgc	3474

When
 numbering
 the first
 amino acid
 on a line,
 begin the
 number
 directly
 under the
 first letter
 of the amino
 acid
 e.g. Thr |
 1030 |
 a |
 Leu |

7/28/03

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319	Arg Ala His Leu Gly Ile Val Ser Gln Glu Pro Ile Leu Phe Asp Cys			
W--> 320	110 1110 1115 1120 1125			
322	agc att agt gag aac att gcc tat gga gac aac agc cgg gtg gtg tca			3522
323	Ser Ile Ser Glu Asn Ile Ala Tyr Gly Asp Asn Ser Arg Val Val Ser			
324	1130 1135 1140			
326	cag gaa gag atc gtg agg gca gcc aag gag gcc aat ata cac gcc ttc			3570
327	Gln Glu Glu Ile Val Arg Ala Ala Lys Glu Ala Asn Ile His Ala Phe			
328	1145 1150 1155			
330	atc gag tca ctg cct aat aaa tat agc acc aga gta gga gac aaa gga			3618
331	Ile Glu Ser Leu Pro Asn Lys Tyr Ser Thr Arg Val Gly Asp Lys Gly			
332	1160 1165 1170			
334	act cag ctc tct ggt ggc cag aaa caa cgc att gcc ata gct cgt gcc			3666
335	Thr Gln Leu Ser Gly Gly Gln Lys Gln Arg Ile Ala Ile Ala Arg Ala			
336	1175 1180 1185			
338	ctt gtt aga cag cct cat att ttg ctt ttg gat gaa gcc aca tca gct			3714
339	Leu Val Arg Gln Pro His Ile Leu Leu Leu Asp Glu Ala Thr Ser Ala			
W--> 340	190 1190 1195 1200 1205			
342	ctg gat aca gaa agt gaa aag gtt gtc caa gaa gcc ctg gac aaa gcc			3762
343	Leu Asp Thr Glu Ser Glu Lys Val Val Gln Glu Ala Leu Asp Lys Ala			
344	1210 1215 1220			
346	aga gaa ggc cgt acc tgc att gtg att gct cac cgc ctg tcc acc atc			3810
347	Arg Glu Gly Arg Thr Cys Ile Val Ile Ala His Arg Leu Ser Thr Ile			
348	1225 1230 1235			
350	cag aat gca gac tta ata gtg gtg ttt cag aat ggc aga gtc aag gag			3858
351	Gln Asn Ala Asp Leu Ile Val Val Phe Gln Asn Gly Arg Val Lys Glu			
352	1240 1245 1250			
354	cac ggc aca cat cag cag ctg ctg gca cag aaa ggc atc tat ttt tca			3906
355	His Gly Thr His Gln Gln Leu Leu Ala Gln Lys Gly Ile Tyr Phe Ser			
356	1255 1260 1265			
358	atg gtc agt gtc cag gct gga gca aag cgc cag t gaactgtgac			3950
359	Met Val Ser Val Gln Ala Gly Ala Lys Arg Gln			
W--> 360	270 1270 1275 1280			
362	tgtatgagat gttaaatatt tttaatatt tttttttaaa tatggcattt attcaaagg			4010
363	aaaaaggcaag tacttataga attatgaaga gttatctgtt taacatttcc tcaaccaagt			4070
364	tcagagtctt cagacactcg taattaaagg aagagagcga gagacatcat caagtggaga			4130
E--> 365	gaaataatgg tttaattgc attataaatt ttataacaga gttaaagtag attttt			4186
534	<210> SEQ ID NO: 3			
535	<211> LENGTH: 4195			
536	<212> TYPE: DNA			
537	<213> ORGANISM: Macaca fascicularis			
539	<220> FEATURE:			
540	<221> NAME/KEY: CDS			
541	<222> LOCATION: (100)...(3949)			
543	<400> SEQUENCE: 3			
544	ggccgctgtt cgtttccgct aggtcttcc actaaagtgc gagtatcttc ttccaaaatt			60
545	tcacgacttg gtggccgttc caaggagcgc gaggtcggtt atg gat ctt gaa ggg			114
546	Met Asp Leu Glu Gly			
547	1			5
549	gac cgc aat gga gga gca gag aag aag aac ttt ttt aaa ctg aac aat			162

pp 10-11

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Input Set : A:\G00307-70020.txt
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550	Asp Arg Asn Gly Gly Ala Glu Lys Lys Asn Phe Phe Lys Leu Asn Asn			
551	10	15	20	
553	aaa agt aaa aaa gat aag aag gaa agg aaa cca act gtc agt gta ttt		210	
554	Lys Ser Lys Lys Asp Lys Lys Glu Arg Lys Pro Thr Val Ser Val Phe			
555	25	30	35	
557	tca atg ttt cgc tat tca aat tgg ctt gac aag ttg tat atg gtg gtg		258	
558	Ser Met Phe Arg Tyr Ser Asn Trp Leu Asp Lys Leu Tyr Met Val Val			
559	40	45	50	
561	gga act ttg gct gcc atc atc cat gga gct gga ctt cct ctc atg atg		306	
562	Gly Thr Leu Ala Ala Ile Ile His Gly Ala Gly Leu Pro Leu Met Met			
563	55	60	65	
565	ctg gtg ttt gga gac atg acg gat acc ttt gca aat gca gga aat tta		354	
566	Leu Val Phe Gly Asp Met Thr Asp Thr Phe Ala Asn Ala Gly Asn Leu			
567	70	75	80	85
569	gga gat tta gga gct ctg ttg ttt aac aac act aat agc agt aat atc		402	
570	Gly Asp Leu Gly Ala Leu Leu Phe Asn Asn Thr Asn Ser Ser Asn Ile			
571	90	95	100	
573	act gat aca gtg ccc gtc atg aat ctg gag gaa gat atg acc agg tat		450	
574	Thr Asp Thr Val Pro Val Met Asn Leu Glu Glu Asp Met Thr Arg Tyr			
575	105	110	115	
577	gcc tat tat tac agt gga att ggt gct ggg gtg ctg gtt gct gct tac		498	
578	Ala Tyr Tyr Ser Gly Ile Gly Ala Gly Val Leu Val Ala Ala Tyr			
579	120	125	130	
581	att cag gtt tca ttt tgg tgc ctg gca gct gga aga caa ata cac aaa		546	
582	Ile Gln Val Ser Phe Trp Cys Leu Ala Ala Gly Arg Gln Ile His Lys			
583	135	140	145	
585	att aga aaa cag ttt ttt cat gct ata atg cga cag gag ata ggc tgg		594	
586	Ile Arg Lys Gln Phe Phe His Ala Ile Met Arg Gln Glu Ile Gly Trp			
587	150	155	160	165
589	ttt gat gtg cac gat gtt ggg gag ctt aac acc cgg ctt aca gat gat		642	
590	Phe Asp Val His Asp Val Gly Glu Leu Asn Thr Arg Leu Thr Asp Asp			
591	170	175	180	
593	gtc tcc aag att aat gaa gga att ggt gac aaa att gga atg ttc ttt		690	
594	Val Ser Lys Ile Asn Glu Gly Ile Gly Asp Lys Ile Gly Met Phe Phe			
595	185	190	195	
597	cag tca atg gca aca ttt ttc act ggg ttt ata gta gga ttt aca cgt		738	
598	Gln Ser Met Ala Thr Phe Phe Thr Gly Phe Ile Val Gly Phe Thr Arg			
599	200	205	210	
601	ggg tgg aag cta acc ctt gtg att ttg gcc atc agt cct gtt ctt gga		786	
602	Gly Trp Lys Leu Thr Leu Val Ile Leu Ala Ile Ser Pro Val Leu Gly			
603	215	220	225	
605	ctg tca gct gca gtc tgg gca aag ata ctg tct tca ttt act gat aaa		834	
606	Leu Ser Ala Ala Val Trp Ala Lys Ile Leu Ser Ser Phe Thr Asp Lys			
607	230	235	240	245
609	gaa ctc tta gct tat gca aaa gct gga gca gta gct gaa gag gtc ttg		882	
610	Glu Leu Leu Ala Tyr Ala Lys Ala Gly Ala Val Ala Glu Glu Val Leu			
611	250	255	260	
613	gca gca att aga act gtg att gca ttt gga gga caa aag aaa gaa ctc		930	
614	Ala Ala Ile Arg Thr Val Ile Ala Phe Gly Gly Gln Lys Lys Glu Leu			

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Input Set : A:\G00307-70020.txt
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615	265	270	275	
617	gaa agg tac aac aaa aat tta gaa gaa gct aaa aga att ggg ata aag			978
618	Glu Arg Tyr Asn Lys Asn Leu Glu Glu Ala Lys Arg Ile Gly Ile Lys			
619	280	285	290	
621	aaa gct att aca gcc aat att tct ata ggt gct gct ttc ctg ctt atc			1026
622	Lys Ala Ile Thr Ala Asn Ile Ser Ile Gly Ala Ala Phe Leu Leu Ile			
623	295	300	305	
625	tat gca tct tat gct ctg gcc ttc tgg tat ggg acc acc ttg gtc ctc			1074
626	Tyr Ala Ser Tyr Ala Leu Ala Phe Trp Tyr Gly Thr Thr Leu Val Leu			
627	310	315	320	325
629	tca aag gaa tat tct att gga caa gta ctc act gta ttc ttt tct gta			1122
630	Ser Lys Glu Tyr Ser Ile Gly Gln Val Leu Thr Val Phe Phe Ser Val			
631	330	335	340	
633	tta att ggg gct ttt agt gtt gga cag gca tct cca agc att gaa gca			1170
634	Leu Ile Gly Ala Phe Ser Val Gly Gln Ala Ser Pro Ser Ile Glu Ala			
635	345	350	355	
637	ttt gca aat gca aga gga gca gct ttt gaa atc ttc aag ata att gat			1218
638	Phe Ala Asn Ala Arg Gly Ala Ala Phe Glu Ile Phe Lys Ile Ile Asp			
639	360	365	370	
641	aat aag cca agt att gac agc tat tcg aag agt ggg cac aaa cca gat			1266
642	Asn Lys Pro Ser Ile Asp Ser Tyr Ser Lys Ser Gly His Lys Pro Asp			
643	375	380	385	
645	aat att aag gga aat ttg gaa ttc aga aat gtt cac ttc agt tac cca			1314
646	Asn Ile Lys Gly Asn Leu Glu Phe Arg Asn Val His Phe Ser Tyr Pro			
647	390	395	400	405
649	tct cga aaa gaa gtt aag atc ttg aag ggc ctg aac ctg aag gtg cag			1362
650	Ser Arg Lys Glu Val Lys Ile Leu Lys Gly Leu Asn Leu Lys Val Gln			
651	410	415	420	
653	agt ggg cag acg gtg gcc ctg gtt gga aac agc ggc tgt ggg aag agc			1410
654	Ser Gly Gln Thr Val Ala Leu Val Gly Asn Ser Gly Cys Gly Lys Ser			
655	425	430	435	
657	aca acg gtc cag ctg atg cag agg ctt tat gac ccc aca gag ggc atg			1458
658	Thr Thr Val Gln Leu Met Gln Arg Leu Tyr Asp Pro Thr Glu Gly Met			
659	440	445	450	
661	gtc agt gtt gat gga cag gat att agg acc ata aac gta agg ttt cta			1506
662	Val Ser Val Asp Gly Gln Asp Ile Arg Thr Ile Asn Val Arg Phe Leu			
663	455	460	465	
665	cgg gaa atc atc ggt gtg agt cag gaa cct gta ttg ttt gcc acc			1554
666	Arg Glu Ile Ile Gly Val Val Ser Gln Glu Pro Val Leu Phe Ala Thr			
667	470	475	480	485
669	acg ata gct gaa aac att cgc tat ggt cgt gaa gat gtc acc atg gat			1602
670	Thr Ile Ala Glu Asn Ile Arg Tyr Gly Arg Glu Asp Val Thr Met Asp			
671	490	495	500	
673	gag att gag aaa gct gtc aag gaa gcc aat gcc tat gac ttt atc atg			1650
674	Glu Ile Glu Lys Ala Val Lys Glu Ala Asn Ala Tyr Asp Phe Ile Met			
675	505	510	515	
677	aaa ctg cct cag aaa ttt gac acc ctg gtt gga gag aga ggg gcc cag			1698
678	Lys Leu Pro Gln Lys Phe Asp Thr Leu Val Gly Glu Arg Gly Ala Gln			
679	520	525	530	

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Input Set : A:\G00307-70020.txt
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681	ctg agt ggt ggg cag aag cag agg atc gcc att gca cgt gcc ctg gtt	1746
682	Leu Ser Gly Gly Gln Lys Gln Arg Ile Ala Ile Ala Arg Ala Leu Val	
683	535 540 545	
685	cgc aac ccc aag atc ctc ctg ctg gag gac acg tca gcc ttg gac	1794
686	Arg Asn Pro Lys Ile Leu Leu Asp Glu Ala Thr Ser Ala Leu Asp	
687	550 555 560 565	
689	aca gaa agt gaa gca gtg gtt cag gtg gct ctg gat aag gcc aga aaa	1842
690	Thr Glu Ser Glu Ala Val Val Gln Val Ala Leu Asp Lys Ala Arg Lys	
691	570 575 580	
693	ggt cgg acc acc att gtg ata gct cat cgt ttg tct acg gtt cgt aat	1890
694	Gly Arg Thr Thr Ile Val Ile Ala His Arg Leu Ser Thr Val Arg Asn	
695	585 590 595	
697	gcc gac gtc atc gct ggt ttc gat gat gga gtc att gtg gag aaa gga	1938
698	Ala Asp Val Ile Ala Gly Phe Asp Asp Gly Val Ile Val Glu Lys Gly	
699	600 605 610	
701	aat cat gat gag ctc atg aaa gag aaa ggc att tac ttc aaa ctt gtc	1986
702	Asn His Asp Glu Leu Met Lys Glu Lys Gly Ile Tyr Phe Lys Leu Val	
703	615 620 625	
705	aca atg cag aca gca gga aat gaa att gaa tta gaa aat gca gct gat	2034
706	Thr Met Gln Thr Ala Gly Asn Glu Ile Glu Leu Glu Asn Ala Ala Asp	
707	630 635 640 645	
709	gaa tcc aaa agt gaa att gat acc ttg gaa atg tct tca cat gat tca	2082
710	Glu Ser Lys Ser Glu Ile Asp Thr Leu Glu Met Ser Ser His Asp Ser	
711	650 655 660	
713	gga tcc agt cta ata aga aaa aga tcc act cgt agg agt gtc cgt gga	2130
714	Gly Ser Ser Leu Ile Arg Lys Arg Ser Thr Arg Arg Ser Val Arg Gly	
715	665 670 675	
717	tca caa ggc caa gac aga aag ctt agt acc aaa gag gct ctg gat gaa	2178
718	Ser Gln Gly Gln Asp Arg Lys Leu Ser Thr Lys Glu Ala Leu Asp Glu	
719	680 685 690	
721	agt ata cct cca gtt tcc ttt tgg agg att atg aag cta aat tta act	2226
722	Ser Ile Pro Pro Val Ser Phe Trp Arg Ile Met Lys Leu Asn Leu Thr	
723	695 700 705	
725	gag tgg cct tat ttt gtt ggt gta ttt tgt gcc att ata aat gga	2274
726	Glu Trp Pro Tyr Phe Val Val Gly Val Phe Cys Ala Ile Ile Asn Gly	
727	710 715 720 725	
729	ggt ctg caa cca gca ttt gca gta ata ttt tca aag att ata ggg att	2322
730	Gly Leu Gln Pro Ala Phe Ala Val Ile Phe Ser Lys Ile Ile Gly Ile	
731	730 735 740	
733	ttt aca aga aat gat gat gcc gaa aca aaa cga cag aat agt aac ttg	2370
734	Phe Thr Arg Asn Asp Asp Ala Glu Thr Lys Arg Gln Asn Ser Asn Leu	
735	745 750 755	
737	ttt tca cta ttg ttt cta gtc ott gga att gtt tct ttt att aca ttt	2418
738	Phe Ser Leu Leu Phe Leu Val Leu Gly Ile Val Ser Phe Ile Thr Phe	
739	760 765 770	
741	ttc ctt cag ggc ttc aca ttt ggc aaa gct gga gag atc ctc acc aag	2466
742	Phe Leu Gln Gly Phe Thr Phe Gly Lys Ala Gly Glu Ile Leu Thr Lys	
743	775 780 785	
745	cgg ctc cga tac atg gtt ttc cga tcc atg ctc aga cag gat gtg agc	2514

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Input Set : A:\G00307-70020.txt

Output Set: N:\CRF4\07282003\J619359.raw

746	Arg Leu Arg Tyr Met Val Phe Arg Ser Met Leu Arg Gln Asp Val Ser	
747	790 795 800 805	
749	tgg ttt gat gac cct aaa aac acc act gga gca ttg act acc agg ctc	2562
750	Trp Phe Asp Asp Pro Lys Asn Thr Thr Gly Ala Leu Thr Thr Arg Leu	
751	810 815 820	
753	gcc aat gat gct caa gtt aaa ggg gct ata ggt tcc agg ctt gct	2610
754	Ala Asn Asp Ala Ala Gln Val Lys Gly Ala Ile Gly Ser Arg Leu Ala	
755	825 830 835	
757	ata att acc cag aat ata gca aat ctt ggg aca gga ata att ata tcc	2658
758	Ile Ile Thr Gln Asn Ile Ala Asn Leu Gly Thr Gly Ile Ile Ile Ser	
759	840 845 850	
761	tta atc tat ggt tgg caa ctg aca ctg tta ctc tta gca att gta ccc	2706
762	Leu Ile Tyr Gly Trp Gln Leu Thr Leu Leu Leu Ala Ile Val Pro	
763	855 860 865	
765	atc att gca ata gca gga gtt gtt gaa atg aaa atg ttg tct gga caa	2754
766	Ile Ile Ala Ile Ala Gly Val Val Glu Met Lys Met Leu Ser Gly Gln	
767	870 875 880 885	
769	gca ctg aaa gat aag aaa gaa cta gaa ggt gct ggg aag atc gct act	2802
770	Ala Leu Lys Asp Lys Lys Glu Leu Glu Gly Ala Gly Lys Ile Ala Thr	
771	890 895 900	
773	gaa gca ata gaa aac ttc cga act gtt gtt tct ttg act cag gag cag	2850
774	Glu Ala Ile Glu Asn Phe Arg Thr Val Val Ser Leu Thr Gln Glu Gln	
775	905 910 915	
777	aag ttt gaa cat atg tat gat cag agt ttg cag gta cca tac aga aac	2898
778	Lys Phe Glu His Met Tyr Asp Gln Ser Leu Gln Val Pro Tyr Arg Asn	
779	920 925 930	
781	tct ttg agg aaa gca cac atc ttt gga atc acg ttt tcc ttc acg cag	2946
782	Ser Leu Arg Lys Ala His Ile Phe Gly Ile Thr Phe Ser Phe Thr Gln	
783	935 940 945	
785	gca atg atg tat ttt tcc tat gct gga tgt ttc cgg ttt gga gcc tac	2994
786	Ala Met Met Tyr Phe Ser Tyr Ala Gly Cys Phe Arg Phe Gly Ala Tyr	
787	950 955 960 965	
789	ttg gtg gca cat agt ctc atg agc ttt gag gat gtt ctg tta gta ttt	3042
790	Leu Val Ala His Ser Leu Met Ser Phe Glu Asp Val Leu Leu Val Phe	
791	970 975 980	
793	tca gct gtt gtc ttt ggt gcc atg gcc gtg ggg caa gtc agt tca ttt	3090
794	Ser Ala Val Val Phe Gly Ala Met Ala Val Gly Gln Val Ser Ser Phe	
795	985 990 995	
797	gct cct gac tat gcc aaa gcc aaa gta tca gca gcc cac atc atc atg	3138
798	Ala Pro Asp Tyr Ala Lys Ala Lys Val Ser Ala Ala His Ile Ile Met	
799	1000 1005 1010	
801	atc att gaa aaa acc cct ttg att gac agc tac agc aca gaa ggc cta	3186
802	Ile Ile Glu Lys Thr Pro Leu Ile Asp Ser Tyr Ser Thr Glu Gly Leu	
803	1015 1020 1025	
805	aag ccg aac aca ttg gaa gga aat gtc aca ttt aat gaa gtt gta ttc	3234
806	Lys Pro Asn Thr Leu Glu Gly Asn Val Thr Phe Asn Glu Val Val Phe	
w--> 807	030 1030 1035 1040 1045	
809	aac tat ccc acc cga ctg gac atc cca gtg ctt cag ggg ctg agc ctg	3282
810	Asn Tyr Pro Thr Arg Leu Asp Ile Pro Val Leu Gln Gly Leu Ser Leu	

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Input Set : A:\G00307-70020.txt
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811	1050	1055	1060	
813	gaa gtg aag aag ggc cag acg ctg gcc ctg gtg ggc agc agt ggc tgt			3330
814	Glu Val Lys Lys Gly Gln Thr Leu Ala Leu Val Gly Ser Ser Gly Cys			
815	1065	1070	1075	
817	ggg aag agc acg gtg gtc cag ctc ctg gag cgg ttc tat gac ccc ttg			3378
818	Gly Lys Ser Thr Val Val Gln Leu Leu Glu Arg Phe Tyr Asp Pro Leu			
819	1080	1085	1090	
821	gcg ggg aaa gtg ctg ctt gac ggc aaa gaa ata aag caa ctg aat gtt			3426
822	Ala Gly Lys Val Leu Leu Asp Gly Lys Glu Ile Lys Gln Leu Asn Val			
823	1095	1100	1105	
825	cag tgg ctc cga gca cac ctg ggc atc gtg tcc cag gag ccc atc ctg			3474
826	Gln Trp Leu Arg Ala His Leu Gly Ile Val Ser Gln Glu Pro Ile Leu			
w--> 827	110 // 10	1115	1120	1125
829	ttt gac tgc agc att agt gag aac att gcc tat gga gac aac agc cgg			3522
830	Phe Asp Cys Ser Ile Ser Glu Asn Ile Ala Tyr Gly Asp Asn Ser Arg			
831	1130	1135	1140	
833	gtg gtg tca cag gaa gag atc gtg agg gca gcc aag gag gcc aat ata			3570
834	Val Val Ser Gln Glu Glu Ile Val Arg Ala Ala Lys Glu Ala Asn Ile			
835	1145	1150	1155	
837	cac gcc ttc atc gag tca ctg cct aat aaa tat agc acc aga gta gga			3618
838	His Ala Phe Ile Glu Ser Leu Pro Asn Lys Tyr Ser Thr Arg Val Gly			
839	1160	1165	1170	
841	gac aaa gga act cag ctc tct ggt ggc cag aaa caa cgc att gcc ata			3666
842	Asp Lys Gly Thr Gln Leu Ser Gly Gly Gln Lys Gln Arg Ile Ala Ile			
843	1175	1180	1185	
845	gct cgt gcc ctt gtt aga cag cct cat att ttg ctt ttg gat gaa gcc			3714
846	Ala Arg Ala Leu Val Arg Gln Pro His Ile Leu Leu Leu Asp Glu Ala			
w--> 847	190 // 90	1195	1200	1205
849	aca tca gct ctg gat aca gaa agt gaa aag gtt gtc caa gaa gcc ctg			3762
850	Thr Ser Ala Leu Asp Thr Glu Ser Glu Lys Val Val Gln Glu Ala Leu			
851	1210	1215	1220	
853	gac aaa gcc aga gaa ggc cgt acc tgc att gtg att gct cac cgc ctg			3810
854	Asp Lys Ala Arg Glu Gly Arg Thr Cys Ile Val Ile Ala His Arg Leu			
855	1225	1230	1235	
857	tcc acc atc cag aat gca gac tta ata gtg gtg ttt cag aat ggc aga			3858
858	Ser Thr Ile Gln Asn Ala Asp Leu Ile Val Val Phe Gln Asn Gly Arg			
859	1240	1245	1250	
861	gtc aag gag cac ggc aca cat cag cag ctg ctg gca cag aaa ggc atc			3906
862	Val Lys Glu His Gly Thr His Gln Gln Leu Leu Ala Gln Lys Gly Ile			
863	1255	1260	1265	
865	tat ttt tca atg gtc agt gtc cag gct gga gca aag cgc cag t			3949
866	Tyr Phe Ser Met Val Ser Val Gln Ala Gly Ala Lys Arg Gln			
w--> 867	270 // 70	1275	1280	
869	gaactgtgac tgtatgagat gttaaatatt tttaatatt tgtgttaaaa tatggcattt			4009
870	attcaaagt aaaaagcaag tacttataga attatgaaga gttatctgtt taacatttcc			4069
871	tcaaccaagt tcagagtctt cagacactcg taattaaagg aagagagcga gagacatcat			4129
872	caagtggaga gaaataatgg tttaaatgc attataaatt ttataacaga gttaaagtag			4189
E--> 873	attttt			4195<-insert

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/619,359

DATE: 07/28/2003

TIME: 08:59:08

Input Set : A:\G00307-70020.txt

Output Set: N:\CRF4\07282003\J619359.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:300 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:320 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:340 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:360 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:365 M:254 E: No. of Bases conflict, LENGTH: Input:0 Counted:4186 SEQ:1
L:807 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:827 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:847 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:867 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:873 M:254 E: No. of Bases conflict, LENGTH: Input:0 Counted:4195 SEQ:3